

CP Algebra 2

Solving Quadratics with Complex Roots

NAME _____

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Solve each quadratic equation, simplify all answers.

1. $6x - 5 = 2x^2$

2. $8x^2 - 4x + 5 = 0$

3. $-5x^2 + 12x = -8$

4. $-x^2 + 4x + 6 = 11$

5. $5x^2 = -8x - 5$

6. $-9x^2 + 6x = 5$

7. $5x^2 - 6x + 9 = 0$

8. $-8x^2 + 12x - 5 = 0$

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9. $-10x^2 + 6x - 9 = 0$

10. $\frac{3}{2}x^2 + \frac{15}{4}x = -\frac{9}{2}$

11. $2x^2 + 1 = 0$

12. $-2(x - \sqrt{-3})(x + \sqrt{-3}) = 0$